

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents,

Washington, D.C. 20231, on

By

*October 17, 1995*

*Dean W. Elzey*

PATENT

Attorney Docket No. 15517-000130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

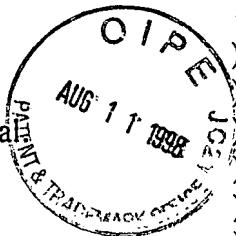
In re application of:

Mukesh Chamanlal Shah, et al.

Serial No.: 08/443,063

Filed: May 17, 1995

For: METHOD AND APPARATUS FOR  
TRACKING VEHICLE LOCATION



Examiner: Not Assigned

Art Unit: Not Assigned

PETITION TO ACCEPT  
DECLARATION ON BEHALF OF  
INVENTOR WHO IS UNAVAILABLE  
TO SIGN UNDER  
37 C.F.R. §1.47(b)

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

Applicants hereby petition the Commissioner under 37 C.F.R. §1.47(b) to accept the enclosed declaration signed on behalf of Mukesh Chamanlal Shah of the present application.

Applicants submit with this Petition the following:

1. Combined declaration and power of attorney signed by a person on behalf of an entity with sufficient proprietary interest (the last known address of the unavailable inventor is stated on the enclosed declaration);
2. Declaration by a person signing on behalf of the unavailable inventor establishing proprietary interest and that such action is necessary to preserve the rights of the parties or to prevent irreparable damage.
3. Declaration by a person showing the unavailability of the inventor.

In view of the foregoing submissions and to preserve their interest, Applicants respectfully request permission to prosecute the above-captioned application on behalf of the unavailable inventor, Mukesh Chamanlal Shah.

Background

The present application is a continuation-in-part of application Serial No. 08/961,736, filed October 16, 1992. The application is assigned to Mobile Information Systems, Inc.

The parent application names Mukesh Chamanlal Shah and Sanjiv Prabhakaram as two co-inventors who contributed to the claimed invention.

For the present application, Sanjiv Prabhakaram has executed the combined declaration and power of attorney document, which is submitted herewith in response to the Notice to File Missing Parts. Mukesh Chamanlal Shah has not executed these documents, since he is unavailable. At the present time, Mukesh Chamanlal Shah is believed to be in Virginia somewhere. As shown in the attached declaration by Richard T. Ogawa, Mukesh Chamanlal Shah has been unavailable. Also, it is expected that he will not sign the declaration and power of attorney at a later date.

All inventors are obligated to assign the present invention to Mobile Information Systems, Inc., as evidenced by the enclosed assignment documents in Exhibits 1 and 3. The assignment documents from the '736 application were made by co-inventors Mukesh Chamanlal Shah and Sanjiv Prabhakaram. In particular, Mukesh Chamanlal Shah and Sanjiv Prabhakaram had executed the combined declaration/power of attorney and assignment to Chronos Mobile Information Systems, Ltd. for the '736 application. Mobile Information Systems, Inc. bought the '736 application from Chronos Mobile Information Systems, Ltd., as evidenced by a copy of the assignment document in Exhibit 3. Therefore, Mobile Information Systems, Inc., having a proprietary interest in this subject matter, is petitioning under 37 C.F.R. 1.47(b).

In the alternative, please consider the petition under 37 C.F.R. §1.47(a) on behalf of, and with Mobile Information Systems, Inc. as an agent for, Mukesh Chamanlal Shah.

Requirements of 37 C.F.R. §1.47(b)

37 C.F.R. §1.47(b) allows a person with sufficient proprietary interest to file an application on behalf of an inventor who cannot be found or reached after diligent effort. The requirements are that the person 1) show sufficient proprietary interest in the matter, and 2) submit a petition including (a) proof of the pertinent facts, (b) a showing that action is necessary to preserve the rights of the parties or to preserve irreparable damage, (c) the fee required by 37 C.F.R. §1.17(h) and (d) the last known address of the unavailable inventor. These requirements are satisfied below and through the accompanying documents. Therefore, it is requested that the present paper be considered a Petition under 37 C.F.R. §1.47(b).

Proprietary Interest

Evidence of Mobile Information Systems, Inc.'s proprietary interest is provided in the attached declaration by Charles F. Short III and the exhibits. Mukesh Chamanlal Shah assigned his rights in the '736 parent application as shown in the assignment, Exhibit 1. He also executed a declaration and power of attorney document for the '736 application as shown in Exhibit 2. Chronos Mobile Information Systems, Ltd. assigned the '736 application to Mobile Information Systems, Inc. as shown in Exhibit 3. As stated in Charles F. Short III's declaration, Mukesh Chamanlal Shah is also obligated to assign his invention to Mobile Information Systems, Inc. for the present invention. Therefore, Mobile Information Systems, Inc. has a sufficient proprietary interest to assert this Petition.

Proof of Pertinent Facts

The unavailability of Mukesh Chamanlal Shah and the diligent efforts to reach him are established by Richard T. Ogawa's declaration. Richard T. Ogawa's declaration establishes that a copy of the present application has been sent to Mukesh Chamanlal Shah at his last known address and that Richard T. Ogawa has made repeated attempts to contact Mukesh Chamanlal Shah. Therefore, Mobile Information Systems, Inc. has established proof of his unavailability through the declaration and has made a diligent effort to contact him.

The Action is Necessary to Preserve Rights

The petition is necessary to preserve the rights of Mobile Information Systems, Inc. The application will go abandoned and patent rights in the subject matter will be lost as a result, unless the petition is granted. Mobile Information Systems, Inc., through its representative, Charles F. Short III, is using the petition to respond to the Notice to File Missing Parts and preserve the filing date of this application.

Required Fee

The Commissioner is authorized to deduct the Petition fee of \$130.00 as required by 37 C.F.R. §1.17(h) from the undersigned's Deposit Account No. 20-1430. Please charge any additional fees or credit overpayment to this same Deposit Account.

The Last Known Address of the Unavailable Inventor

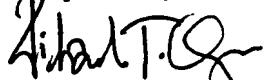
As shown on the declaration submitted herewith, Mukesh Chamanlal Shah's address is:

3745 Tempest Drive  
Lake Oswego, Oregon 97035

The requirements of 37 C.F.R. §1.47(b) have been met by this Petition and the accompanying document. It is respectfully requested that this Petition be granted. If there are any questions, please contact the undersigned at the below-listed telephone number.

This Petition is submitted in triplicate.

Respectfully submitted,

  
Richard T. Ogawa  
Reg. No. 37,692

TOWNSEND and TOWNSEND and CREW  
One Market Plaza  
Steuart Street Tower, 20th Floor  
San Francisco, California 94105  
(415) 326-2400  
RTO:de

riolwork\155171-3.pet

DATE: 01/21/93



TO:  
ROBERT C. COLWELL  
TOWNSEND AND TOWNSEND  
STEUART STREET TOWER, 20TH FLOOR  
ONE MARKET PLAZA  
SAN FRANCISCO, CA 94105-1492

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

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JULY 17 1992

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JULY 17 1992

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:  
SHAH, MUKESH CHAMANLAL

DOC DATE: 10/16/92

ASSIGNOR:  
PRABHAKARAN, SANJIV

DOC DATE: 10/16/92

RECORDATION DATE: 10/28/92 NUMBER OF PAGES 004 REEL/FRAME 6347/0478

DIGEST :ASSIGNMENT OF ASSIGNEES INTEREST

ASSIGNEE:  
CHRONOS MOBILE INFORMATION SYSTEMS LTD.  
680 WEST MAUDE AVENUE, #1  
SUNNYVALE, CALIFORNIA 94086

SERIAL NUMBER 7-961706 FILING DATE 10/15/92  
PATENT NUMBER ISSUE DATE 00/00/00

EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

FORM PTO-1595  
1-31-92RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks, please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Mukesh Chamanial Shah

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

 Assignment Merger Security Agreement Change of Name Other:

Execution Date: October 16, 1992

## 2. Name and address of receiving party(ies):

Name: Chronos Mobile Information Systems Ltd.

Internal Address:

Street Address: 680 West Maude Avenue, #1

City: Sunnyvale State: CA ZIP: 94086

Additional name(s) & address(es) attached?  Yes 

## 4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is: October 16, 1992

## A. Patent Application No.(s)

## B. Patent No.(s)

Additional numbers attached?

 Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert C. Colwell  
 TOWNSEND and TOWNSEND  
 Twentieth Floor  
 Steuart Street Tower  
 One Market Plaza  
 San Francisco, California 94105-1492  
 (415) 326-2400

P 30157 01/04/93 07961736

6. Total number of applications and patents involved:  1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed  Charge Fees to Deposit Account  
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account

8. Deposit account number: 20-1430

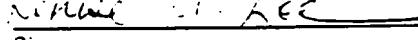
Attach duplicate copy of this page if paying by deposit account  
 20-1430 070 581 40.00CH

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Denise A. Lee  
 Name of Person Signing

  
 Signature

December 18, 1992  
 Date

Total number of pages comprising cover sheet:  210. Change Correspondence Address to that of Part 5?  Yes  No

OMB No. 0651-0011 (exp. 4/94)

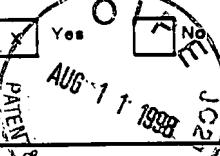
Do not detach this portion  
 Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents and Trademarks  
 Box Assignments  
 Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Name(s) of conveying party(ies):

Mukesh Chansaria Shah

Arbitrator's signature of conveying party(ies) attached?



## 2. Name and address of receiving party(ies):

Name: Chronos Mobile Information Systems Ltd.

## Internal Address:

Street Address: 680 West Maude Avenue,

City: Sunnyvale State: CA ZIP: 94086

ASSIGNMENT BRANCH

92 NOV - 6 AM 8:20

RECEIVED

## 3. Nature of conveyance:

 Assignment Merger Security Agreement Change of Name Other:

Execution Date: October 16, 1992

Additional name(s) & address(es) attached?  Yes 

## 4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is: October 16, 1992

## A. Patent Application No.(s)

## B. Patent No.(s)

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert C. Colwell  
TOWNSEND and TOWNSEND  
Twentieth Floor  
Steuart Street Tower  
One Market Plaza  
San Francisco, California 94105-1492  
(415) 326-2400

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): ..... \$ 40.00

Enclosed  Charge Fees to Deposit Account  
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account

## 8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

LA10024 10/28/92 07961736

DO NOT USE THIS SPACE

40.00CH

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Denise A. Lee

Name of Person Signing

Denise A. Lee

Signature

October 16, 1992

Date

Total number of pages comprising cover sheet: 2

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks  
Box Assessments  
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503.

1. Additional name(s) of conveying party(ies):  
(Continued from Page 1)

Sanjiv Prabhakaran

2. Additional name(s) and address(es) of receiving party(ies):  
(Continued from Page 1).

4. Additional application number(s) or patent number(s):  
(Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

## ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, MUKESH CHAMANLAL SHAH, 5997 Burchell Court, San Jose, CA 95120; and

name and addresses of inventors as they appear on application Declaration

SANJIV PRABHAKARAN, 3200 Payne Avenue, #924, San Jose, California 95117

hereinafter referred to as "Assignors", are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of invention: METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION

Date(s) of execution: October 16, 1992

Filing date: Serial No. \_\_\_\_\_; and

WHEREAS, CHRONUS MOBILE INFORMATION SYSTEMS LTD., a Delaware corporation,

(name and address of Assignee)

680 West Maude Avenue, #1, Sunnyvale, California 94086

hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignors. Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. patent applications and foreign counterparts on the invention and any improvements; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

(Signature of Assignors as written above)

(dates)

STATE OF CALIFORNIA )  
COUNTY OF SANTA CLARA ) SS.

Before me, Diane E. Hawley, a Notary Public, duly commissioned and sworn, personally appeared MUKESH CHAMANLAL SHAH AND SANJIV PRABHAKARAN, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person (s) whose name(s) \_\_\_\_\_ are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal in the

County of SANTA CLARA on the date set forth in this certificate.

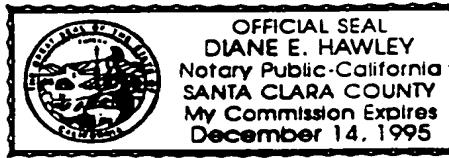
  
 Diane E. Hawley  
 Notary Public

My commission expires:

TOWNSEND and TOWNSEND  
One Market Plaza  
Steuart Street Tower, 20th Floor  
San Francisco, California 94105

RECORDED  
PATENT AND TRADEMARK  
OFFICE

OCT 20 1992



(5-88)

## DECLARATION AND POWER OF ATTORNEY

OIA  
AUG 11 1992

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION

the specification of which  is attached hereto or  was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

## Prior Foreign Application(s)

COUNTRY	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			Yes _____ No _____
			Yes _____ No _____

I claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NO.	DATE OF FILING	STATUS
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) who are partners and associates in the firm of Townsend and Townsend to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Robert C. Colwell, Reg. 27,431  
David N. Slone, Reg. 28,572

Denise A. Lee, Reg. P35,931  
Eric H. Willgoohs, Reg. 34,755

SEND CORRESPONDENCE TO:	Robert C. Colwell TOWNSEND and TOWNSEND Steuart Street Tower, One Market Plaza San Francisco, CA 94105	DIRECT TELEPHONE CALLS TO: (name, registration number, and telephone number) Denise A. Lee Reg. No. P35,931 <input type="checkbox"/> (415) 543-9600 or <input checked="" type="checkbox"/> (415) 326-2400
-------------------------	---	---

201	FULL NAME OF INVENTOR	Last Name SHAH	First Name MUKESH	Middle Name or Initial CHAMANLAL
	RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country California	Country of Citizenship U.S.A.
POST OFFICE ADDRESS	Post Office Address 5997 Burchell Court	City San Jose	State or Country California	Zip Code 95120
202	FULL NAME OF INVENTOR	Last Name PRABHAKARAN	First Name SANJIV	Middle Name or Initial
	RESIDENCE & CITIZENSHIP	City San Jose	State or Foreign Country California	Country of Citizenship India
POST OFFICE ADDRESS	Post Office Address 3200 Payne Ave., #924	City San Jose	State or Country California	Zip Code 95117
203	FULL NAME OF INVENTOR	Last Name	First Name	Middle Name or Initial
	RESIDENCE & CITIZENSHIP	City	State or Foreign Country	Country of Citizenship
POST OFFICE ADDRESS	Post Office Address	City	State or Country	Zip Code

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 201 <i>Mukesh Shah</i>	Signature of Inventor 202 <i>[Signature]</i>	Signature of Inventor 203
Date 10/16/92	Date 10/16/92	Date

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Assistant Commissioner for Patents,  
Washington, D.C. 20231, on October 17, 1995  
By Alaine L. Elyinger

PATENT  
Attorney Docket No. 15517-000130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

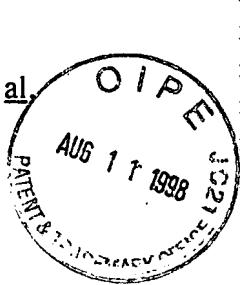
In re application of:

Mukesh Chamanlal Shah, et al.

Serial No.: 08/443,063

Filed: May 17, 1995

For: METHOD AND APPARATUS FOR  
TRACKING VEHICLE LOCATION



Examiner: Not Assigned

Art Unit: Not Assigned

PROOF OF PROPRIETARY INTEREST  
(M.P.E.P. §409.03(F))

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

1. I, Charles F. Short III, am co-founder and am Chairman and Chief Executive of Mobile Information Systems, Inc., as of December 1993. Since this time, I have been directly involved in the management of Mobile Information Systems, Inc. and its products.

2. Mukesh Chamanlal Shah, a co-inventor of the above-captioned application, was employed with Chronos Mobile Information Systems, Ltd. during the time the invention was made. At the time the invention was made, Mukesh Chamanlal Shah, had agreed in writing to assign the invention to Chronos Mobile Information Systems, Ltd. Accompanying this document is a copy of an assignment and a combined declaration and power of attorney in Application Serial No. 08/961,736, the parent of this application. Mobile Information Systems, Inc. purchased the '736 application from Chronos Mobile Information Systems, Inc. A copy of the assignment document transferring the '736 application from Chronos Mobile Information Systems, Ltd. to Mobile Information Systems, Inc. is attached as Exhibit 3. These documents are believed to be sufficient to establish proof of proprietary interest of Mobile Information Systems, Inc. in the subject matter of the application.

3. Based upon my knowledge, the last known address of Mukesh Chamanlal Shah is:

3745 Tempest Drive  
Lake Oswego, Oregon 97035

4. The above-captioned application is filed in the U.S. Patent and Trademark Office pursuant to 37 CFR §1.47(b). to prevent irreparable damage, which includes a loss of valuable patent rights.

5. Based upon my personal knowledge and belief, I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent issuing thereon.

Respectfully submitted,

Date: 10.16.95



Charles F. Short III  
Chairman and Chief Executive

TOWNSEND and TOWNSEND and CREW  
One Market Plaza  
Steuart Street Tower, 20th Floor  
San Francisco, California 94105  
(415) 326-2400  
RTO:de

*rto\work\15517\1-3prop.i.int*

DATE: 05/07/95  
TO:



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

95 MAY 26 AM 8:21

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N09A  
TOWNSEND AND TOWNSEND KHOURIE AND CREW.  
RICHARD T. OGAWA  
TWENTIETH FLOOR  
STEUART STREET TOWER, ONE MARKET PLAZA  
SAN FRANCISCO, CA 94105-1492

UNITED STATES PATENT AND TRADEMARK OFFICE  
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ASSIGNOR:  
CHRONOS MOBILE INFORMATION SYSTEMS, LTD.

DOC DATE: 02/15/94

RECORDATION DATE: 03/20/95 NUMBER OF PAGES 003 REEL/FRAME 7411/0428

DIGEST: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:  
MOBILE INFORMATION SYSTEMS, INC.  
1333 BORDEAUX MOFFET PARK  
SUNNYVALE, CALIFORNIA 94089

SERIAL NUMBER 7-961736 FILING DATE 10/16/92  
PATENT NUMBER ISSUE DATE 06/27/95

*Kathy Yooce*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

FORM PTU-1595  
(Rev. 6-93)RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Chronos Mobile Information Systems, Ltd.

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other:

Execution Date: February 15, 1994

## 2. Name and address of receiving party(ies):

Name: Mobile Information Systems, Inc.

Internal Address:

Street Address: 1333 Bordeaux Moffet Park

City: Sunnyvale State: CA ZIP: 94089

Additional name(s) & address(es) attached?  Yes A  
SIGNATURE  
RECEIVED  
MAY 19 1995  
RECEIVED  
MAR 27 1995

GROUP 2300

## 4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 07/961,736

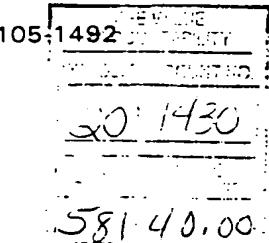
B. Patent No.(s)

Additional numbers attached?

 Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard T. Ogawa  
 TOWNSEND and TOWNSEND KHOURIE and CREW  
 Twentieth Floor  
 Steuart Street Tower  
 One Market Plaza  
 San Francisco, California 94105-1492  
 (415) 326-2400

6. Total number of applications and patents involved:  1

## 7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed  Charge Fees to Deposit Account  
 Charge any additional fees associated with this paper during the pendency of this application, or credit any overpayment, to deposit account

## 8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard T. Ogawa

Name of Person Signing

Signature

March 14, 1995

Date

Atty. Reg. No. 37,692

Total number of pages including cover sheet, attachments, and document:  310. Change Correspondence Address to that of Part 5?  Yes  No

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents and Trademarks  
 Box Assignments  
 Washington, D.C. 20231

Do not detach this portion

93771273

RECEIVED

MAR 27 1995

GROUP 230

ASSIGNMENT OF LETTERS PATENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged,

ASSIGNOR: Chronos Mobile Information Systems, Ltd.  
c/o Murray & Murray  
Attn: Gary Garriques  
3030 Hansen Way  
Suite 200  
Palo Alto, California 94304

hereby assigns and transfers to

ASSIGNEE: Mobile Information Systems, Inc.  
1333 Bordeaux  
Moffet Park  
Sunnyvale, California 94089

and the successors, assigns and legal representatives of the Assignee the entire right, title and interest in and to the invention described in United States Letters Patent Application Serial No. 07/961-736, filed October 16, 1992, entitled "Method and Apparatus for Tracking Vehicle Location," and all applications from which it claims priority, and all foreign counterparts (including patent, utility model and industrial designs). The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue prolongation or extension thereof.

IN WITNESS WHEREOF, Assignor has hereunto executed this document this 15 day of February, 1994.

CHRONOS MOBILE INFORMATION SYSTEMS, LTD.

By:

  
\_\_\_\_\_  
Charles F. Short, III  
Chairman

STATE OF CALIFORNIA )  
COUNTY OF SANTA CLARA )

ss:

On February 15, 1994 before me, John A. Hartley,  
personally appeared John A. Hartley II, personally  
known to me or proved to me on the basis of satisfactory evidence  
to be the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledge to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the  
entity upon behalf of which the person(s) acted, executed the  
instrument.

WITNESS my hand and official seal.



Attached to Assignment of Letters Patent  
Mailed February 15, 1994

RECORDED  
U.S. PATENT & TRADEMARK OFFICE

MAR 20 95

ASSIGNMENT OF LETTERS PATENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged,

ASSIGNOR: Chronos Mobile Information Systems, Ltd.  
c/o Murray & Murray  
Attn: Gary Garriques  
3030 Hansen Way  
Suite 200  
Palo Alto, California 94304

hereby assigns and transfers to

ASSIGNEE: Mobile Information Systems  
1333 Bordeaux  
Moffet Park  
Sunnyvale, California 94089

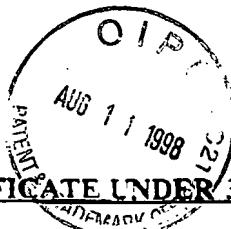
and the successors, assigns and legal representatives of the Assignee the entire right, title and interest in and to the invention described in United States Letters Patent Application Serial No. 07/961-736, filed October 16, 1992, entitled "Method and Apparatus for Tracking Vehicle Location," and all applications from which it claims priority, and all foreign counterparts (including patent, utility model and industrial designs). The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue prolongation or extension thereof.

IN WITNESS WHEREOF, Assignor has hereunto executed this document this 15 day of February, 1994.

CHRONOS MOBILE INFORMATION SYSTEMS, LTD.

By: Charles F. Short, III  
Charles F. Short, III  
Chairman

201-1741



CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Applicant: Mukesh C. Shah, et al.

Application No.: 07/961,736 Filed: October 16, 1992

For: METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION

Mobile Information Systems, Inc., a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. [ ] An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame(s) \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. [x] A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: Mukesh Chamanlal Shah and Sanjiv Prabhakaran To: Chronos Mobile Information Systems Ltd.  
The document was recorded in the Patent and Trademark Office at Reel 6347, Frame 0478, or for which a copy thereof is attached.
2. From: Chronos Mobile Information Services Ltd. To: Mobile Information Systems, INC.  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

[X] Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date : March 14, 1995

Name : CHARLES F. SHORT, III

Title : President, Mobile Information Systems, INC.

Signature : Charles F. Short, III

ASSIGNMENT OF LETTERS PATENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged,

ASSIGNOR: Chronos Mobile Information Systems, Ltd.  
c/o Murray & Murray  
Attn: Gary Garriques  
3030 Hansen Way  
Suite 200  
Palo Alto, California 94304

hereby assigns and transfers to

ASSIGNEE: Mobile Information Systems, Inc.  
1333 Bordeaux  
Moffet Park  
Sunnyvale, California 94089

and the successors, assigns and legal representatives of the Assignee the entire right, title and interest in and to the invention described in United States Letters Patent Application Serial No. 07/961-736, filed October 16, 1992, entitled "Method and Apparatus for Tracking Vehicle Location," and all applications from which it claims priority, and all foreign counterparts (including patent, utility model and industrial designs). The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue prolongation or extension thereof.

IN WITNESS WHEREOF, Assignor has hereunto executed this document this 15 day of February, 1994.

CHRONOS MOBILE INFORMATION SYSTEMS, LTD.

By:

  
\_\_\_\_\_  
Charles F. Short, III  
Chairman

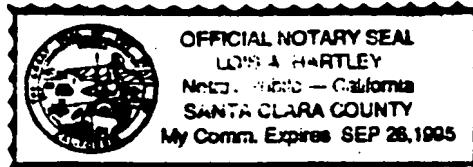
STATE OF CALIFORNIA )

) ss:

COUNTY OF SANTA CLARA )

On December 15 - 04 before me, John S. Hartley,  
personally appeared Thomas P. Hartley, personally  
known to me or proved to me on the basis of satisfactory evidence  
to be the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledge to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the  
entity upon behalf of which the person(s) acted, executed the  
instrument.

WITNESS my hand and official seal.



Notarized to assignment of Thomas P. Hartley  
10/16/2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Assistant Commissioner for Patents  
Washington, D.C. 20231, on October 17, 1995  
By Richard T. Ogawa

PATENT

Attorney Docket No. 15517-000130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mukesh Chamanlal Shah, et al.

Serial No.: 08/433,063

Filed: May 17, 1995

For: METHOD AND APPARATUS FOR  
TRACKING VEHICLE LOCATION



Examiner: Not Assigned

Art Unit: Not Assigned

DECLARATION OF RICHARD T.  
OGAWA UNDER  
37 C.F.R. §1.47(b)

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

I, Richard T. Ogawa, Patent Counsel for Mobile Information Systems, Inc., hereby declare the following:

1. The following statement establishes the inventor's unavailability to execute the application by one of the inventors, Mukesh Chamanlal Shah, and the need for filing this application under 37 C.F.R. §1.47(b).  
  
2. Copies of the application with the combined Declaration and Power of Attorney (hereinafter collectively the "Declaration") with an assignment were submitted to Mukesh Chamanlal Shah on July 12, 1995 for execution. A cover letter accompanying the application is attached hereto as Exhibit 4. After this date, on August 8, 1995, I called Mukesh Chamanlal Shah at his new employer at (503) 264-5541 to ask him to execute the Declaration and Assignment. On this date, I did not reach Mukesh Chamanlal Shah, but left a message on his phone mail asking him for his signature on the Declaration and Assignment. The signed Declaration and Assignment were not received. On October 13, 1995, I called Mukesh Chamanlal Shah, again, to ask him to execute the Declaration and Assignment. On this date, I was informed that Mukesh Chamanlal Shah was transferred to a Virginia location. I called Mukesh Chamanlal Shah at the Virginia location at (703) 264-5541, but did not reach him. On his voice mail, however, I asked Mukesh Chamanlal Shah to call me, or I would assume that he is refusing to sign the Declaration and Assignment. As of this date, I have not heard from Mukesh Chamanlal Shah.

3. As of the date of the submission of this Declaration, Mukesh Chamanlal Shah has been unavailable to execute the Declaration and Assignment documents. I also believe that Mukesh Chamanlal Shah has refused to sign the Declaration and Assignment documents based upon my October 13, 1995 call.

4. For the foregoing reasons, it is believed that sufficient basis has been established for filing this application absent Mukesh Chamanlal Shah's signature. The Petition under 37 C.F.R. §147(b) is therefore respectfully requested to be granted.

5. Based upon my personal knowledge and belief, I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent issuing thereon.

Executed on 10/17/95 at Palo Alto, California.

  
Richard T. Ogawa  
Reg. No. 37,692

RTO:de

rto\work\15517\1-3rto.dec

LAW OFFICES  
TOWNSEND AND TOWNSEND AND CREW  
PATENTS. TRADEMARKS. COPYRIGHTS. ANTITRUST. COMMERCIAL LITIGATION

379 LYTTON AVENUE  
PALO ALTO, CA 94301  
TEL (415) 326-2400 FAX (415) 326-2422

July 12, 1995

VIA FEDERAL EXPRESS

Mukesh Shah  
3745 Tempest Drive  
Lake Oswego, OR 97035



(APP. WAS also included)

Re: New Continuation-in-Part Patent Application  
for METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION  
U.S. Serial No.: 08/443,063  
Filed: May 17, 1995  
Our Reference Number: 015517-000130

Dear Mr. Shah:

Enclosed is a copy of the above-identified application as it was filed with the United States Patent and Trademark Office on May 17, 1995. This copy is for your records. Also enclosed are:

- 1) an "Inventor Instruction Sheet" which describes the correct procedure for executing the formal papers identified in items 2-3, below;
- 2) a "Declaration and Power of Attorney"; and
- 3) an "Assignment of Patent Application" (which should be executed in the presence of a notary).

Please have the formal papers executed according to the instructions and return them via Federal Express (label and envelope enclosed) for subsequent filing in the Patent Office.

If you have any questions, please contact me at (415) 326-2400 ex. 261.

Very truly yours,

Richard T. Ogawa

RTO/kaa  
Enclosures  
155171-3.LT3

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Assistant Commissioner for Patents,

Washington, D.C. 20231, on

By Charles F. Short III, October 17, 1995



PATENT

Attorney Docket No. 15517-000130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mukesh Chamanlal Shah, et al.

Serial No.: 08/443,063

Filed: May 17, 1995

For: METHOD AND APPARATUS FOR  
TRACKING VEHICLE LOCATION

)

)

) Examiner: Not Assigned

)

) Art Unit: Not Assigned

)

) ADDED PAGES TO COMBINED  
DECLARATION AND POWER OF  
ATTORNEY FOR SIGNATURE BY  
PERSON WITH SUFFICIENT  
PROPRIETARY INTEREST ON  
BEHALF OF OMITTED INVENTOR(S)  
WHO REFUSE(S) TO SIGN OR  
CANNOT BE REACHED (37 CFR  
1.47(b))

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

I, Charles F. Short III, hereby declare that:

1. I am a citizen of the United States, residing at 26 Beach Road,  
Belvedere, California 94920. I am authorized by the juristic entity with sufficient  
proprietary interest, which is assignee of this application. The juristic entity is:

Mobile Information Systems, Inc.  
1333 Bordeaux Drive  
Sunnyvale, California 94089.

I, Charles F. Short III, Chairman and Chief Executive of Mobile Information Systems, Inc.,  
am authorized to sign on behalf of assignee.

2. By virtue of this proprietary interest I sign this declaration on behalf of  
Mukesh Chamanlal Shah, the omitted inventor who cannot be found or reached at this time.

Applicant: Mukesh Chamanlal Shah, et al.  
Serial No.: 08/433,063

Page 2

Mukesh Chamanlal Shah is a citizen of the United States of America, and his last known address is:

3745 Tempest Drive  
Lake Oswega, Oregon 97035.

3. Based up, on my personal knowledge and belief, I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent application or any patent issuing thereon.

Executed on 10.16.95 at Sunnyvale, California.



Charles F. Short III  
Chairman and Chief Executive

RTO:de  
*15517A1-3 added.pgs*

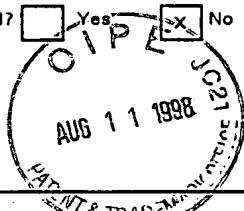
FORM PTO-1595  
(Rev. 6-93)RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Mukesh Chamanlal Shah  
Sanjiv Prabhakaran

2. Name and address of receiving party(ies):

Name: Mobile Information Systems, Inc.

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other:

Execution Date: 7/13/95, 10/16/95

Street Address: 1333 Bordeaux Drive  
Moffett Park

City: Sunnyvale State: CA ZIP: 94089

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard T. Ogawa  
TOWNSEND and TOWNSEND and CREW  
Twentieth Floor  
Steuart Street Tower  
One Market Plaza  
San Francisco, California 94105-1492  
(415) 326-24006. Total number of applications and patents involved:  1

7. Total fee (37 CFR 3.41): ..... \$ 40.00

Enclosed  Charge Fees to Deposit Account  
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account

8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Richard T. Ogawa  
Name of Person Signing*Richard T. Ogawa*  
Signature10/17/95  
Date

Atty. Reg. No. 37,692

Total number of pages including cover sheet, attachments, and document:  410. Change Correspondence Address to that of Part 5?  Yes  No

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion  
 Mail documents to be recorded with required cover sheet information to:  
 Assistant Commissioner for Patents  
 Box Assignments  
 Washington, D.C. 20231

Attorney Docket No. 15517-0001300

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Mukesh Chamanlal Shah of Lake Oswego, Oregon, and Sanjiv Prabhakaran of San Jose, California, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: **METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION**

Date(s) of execution of Declaration: \_\_\_\_\_

Filing date: May 17, 1995 Serial No.: 08/443,063; and

WHEREAS, MOBILE INFORMATION SYSTEMS, INC., located at 1333 Bordeaux, Moffett Park, Sunnyvale, California, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date: 10.16.95

  
\_\_\_\_\_  
Charles F. Short III, Chairman and Chief  
Executive, on behalf of Mukesh  
Chamanlal Shah

WITNESSES

William N. Stinton  
PRINT NAME

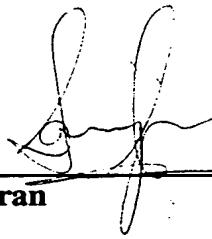
Wm. N. Stinton  
SIGNATURE

Joe R. Martinez  
PRINT NAME

Joe R. Martinez  
SIGNATURE

Date: July 13, 95

Sanjiv Prabhakaran



STATE OF CA

COUNTY OF Santa Clara

On 7-13-95, before me, Henry Shepherd (here insert name and title of the officer), personally appeared Sanjiv Prabhakaran, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, execute the instrument.

WITNESS my hand and official seal.

Signature Henry Shepherd (Seal)



MARCH 28, 1996



PTAS

RICHARD T. OGAWA  
TOWNSEND AND TOWNSEND AND CREW  
TWENTIETH FLOOR, STEUART STREET TOWER  
ONE MARKET PLAZA  
SAN FRANCISCO, CA 94105-1492

15517-000130US

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

RCU/RTO



\*100084291A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/23/1995

REEL/FRAME: 7724/0949  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

SHAH, MUKESH CHAMAHLAL

DOC DATE: 10/16/1995

ASSIGNOR:

PRABHAKARAN, SANJIV

DOC DATE: 07/13/1995

ASSIGNEE:

MOBILE INFORMATION SYSTEMS, INC.  
1333 BORDEAUX DRIVE  
MOFFETT PARK  
SUNNYVALE, CALIFORNIA 94089

SERIAL NUMBER: 08443063

FILING DATE: 05/17/1995  
PATENT NUMBER:

JERYL McDOWELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

56 APR -1 AM 8:  
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12-13-1995

Attorney Docket No. 15517-000130  
*A/D*FORM PTO-1595  
(Rev. 6-93)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeTo the Honorable Assistant Commissioner

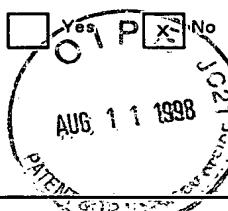
100084291

Original documents or copy thereof.

1. Name of conveying party(ies):  
 Mukesh Chamanlal Shah  
 Sanjiv Prabhakaran

2. Name and address of receiving party(ies):

Name: Mobile Information Systems, Inc.

Additional name(s) of conveying party(ies) attached?  Yes  No

M&amp;P 10/23/95

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other:	

Execution Date: 7/13/95, 10/16/95

Street Address: 1333 Bordeaux Drive  
Moffett ParkCity: Sunnyvale State: CA ZIP: 94089  
65705 U.S. PTO

12/11/95

Additional name(s) & address(es) attached?  Yes  No

## 4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

 Yes  No

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 Twentieth Floor  
 Steuart Street Tower  
 One Market Plaza  
 San Francisco, California 94105-1492  
 (415) 326-2400

6. Total number of applications and patents involved:  1

7. Total fee (37 CFR 3.41): ..... \$ 40.00

<input type="checkbox"/> Enclosed	<input checked="" type="checkbox"/> Charge Fees to Deposit Account
<input checked="" type="checkbox"/> Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account	

8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

## DO NOT USE THIS SPACE

## 9. Statement and signature.

MG11039 11/07/95 08443063 20-1430 110 581 40.00CH  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Richard T. Ogawa  
Name of Person Signing

Signature

10/17/95

Date

Atty. Reg. No. 37,692

Total number of pages including cover sheet, attachments, and document:  410. Change Correspondence Address to that of Part 5?  Yes  No

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Mail documents to be recorded with required cover sheet information to:  
 Assistant Commissioner for Patents  
 Box Assignments  
 Washington, D.C. 20231

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Attorney Docket No. 15517-0001300

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Mukesh Chamanlal Shah of Lake Oswego, Oregon, and Sanjiv Prabhakaran of San Jose, California, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: **METHOD AND APPARATUS FOR TRACKING VEHICLE LOCATION**

Date(s) of execution of Declaration: \_\_\_\_\_

Filing date: May 17, 1995 Serial No.: 08/443,063; and

WHEREAS, MOBILE INFORMATION SYSTEMS, INC., located at 1333 Bordeaux, Moffett Park, Sunnyvale, California, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Date:

10.16.95

Charles F. Short III

Charles F. Short III, Chairman and Chief Executive, on behalf of Mukesh Chamanlal Shah

WITNESSES

William N. Stinzen

PRINT NAME

Mr. N. Stinzen

SIGNATURE

Joe R. Martucci

PRINT NAME

Joe R. Martucci

SIGNATURE

Date: July 13, '95

Sanjiv Prabhakaran

STATE OF CA  
COUNTY OF Santa Clara

On 7-13-95, before me, Henry Shepherd (here insert name and title of the officer), personally appeared Sanjiv Prabhakaran, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, execute the instrument.

WITNESS my hand and official seal.

Signature Henry Shepherd (Seal)

